

What is claimed is:

1. An image readout method comprising the steps of:

scanning a solid state detector comprising: a first
conductive layer; at least one photoconductive layer; and a
5 second electrode layer having stripe electrodes formed by a
plurality of linear electrodes, stacked in the order listed,
which records image data as an electrostatic latent image when
irradiated with recording light bearing the image data, and
generates electric current corresponding to the electrostatic
10 latent image when scanned with readout light, with the readout
light;

detecting the electric current output from the linear
electrodes by the scanning; and

obtaining an image signal by sampling the detected
15 electric current at a predetermined sampling rate; wherein

a pixel density of an image formed by the image signal,
in the longitudinal direction of the linear electrodes, is
changed by changing the scanning speed of the readout light
and/or the sampling rate.

20 2. An image readout method as defined in claim 1,
wherein:

a beam width of the readout light, in the longitudinal
direction of the linear electrodes, is changed according to the
pixel density in the longitudinal direction of the linear
25 electrodes.

3. An image readout method as defined in claim 1,
wherein:

a pixel density of the image, in a direction perpendicular
to the longitudinal direction of the linear electrodes, is
5 changed by adding the electric current detected for each of the
linear electrodes in an analog manner, according to the pixel
density in the longitudinal direction of the linear electrodes.

4. An image readout method as defined in claim 2,
wherein:

10 a pixel density of the image, in a direction perpendicular
to the longitudinal direction of the linear electrodes, is
changed by adding the electric current detected for each of the
linear electrodes in an analog manner, according to the pixel
density in the longitudinal direction of the linear electrodes.

15 5. An image readout method comprising the steps of:

scanning a solid state detector comprising: a first
conductive layer which is transmissive with respect to
recording light; a recording light photoconductive layer which
exhibits photoconductivity when irradiated with the recording
20 light; a charge accumulating layer that stores image data borne
by the recording light as an electrostatic latent image; a
readout light photoconductive layer formed from an amorphous
substance which exhibits photoconductivity when irradiated
with readout light; and a second conductive layer having stripe
25 electrodes formed by a plurality of linear electrodes, stacked
in the order listed, which generates electric current

corresponding to the electrostatic latent image when scanned with the readout light, with the readout light;

detecting the electric current output from each of the linear electrodes with a current detecting means; and

5 obtaining an image signal by sampling the electric current, detected by the current detecting means, at a predetermined sampling rate; wherein

a frequency band of the current detecting means is changed according to a readout speed of the electrostatic latent image, 10 in the case that the readout speed is changed by changing a scanning speed of the readout light and the sampling rate in proportion with each other.

6. An image readout apparatus comprising:

a solid state detector comprising: a first conductive 15 layer; at least one photoconductive layer; and a second electrode layer having stripe electrodes formed by a plurality of linear electrodes, stacked in the order listed, which records image data as an electrostatic latent image when irradiated with recording light bearing the image data, and generates electric 20 current corresponding to the electrostatic latent image when scanned with readout light, with the readout light;

a readout light scanning means for scanning the solid state detector with the readout light;

a current detecting means for detecting the electric 25 current output from each of the linear electrodes by the scanning with the readout light;

an image signal obtaining means for obtaining an image signal by sampling the detected electric current at a predetermined sampling rate; and

a pixel density changing means for changing a pixel
5 density of an image formed by the image signal, in the longitudinal direction of the linear electrodes, by changing the scanning speed of the readout light and/or the sampling rate.

7. An image readout apparatus as defined in claim 6,
10 further comprising:

a beam width changing means for changing a beam width of the readout light in the longitudinal direction of the linear electrodes.

8. An image readout apparatus as defined in claim 6,
15 further comprising:

an adding means for adding the electric current detected from each of the linear electrodes in an analog manner.

9. An image readout apparatus as defined in claim 7,
further comprising:

20 an adding means for adding the electric current detected from each of the linear electrodes in an analog manner.

10. An image readout apparatus comprising:

a solid state detector comprising: a first conductive layer which is transmissive with respect to recording light;
25 a recording light photoconductive layer which exhibits photoconductivity when irradiated with the recording light; a

charge accumulating layer that stores image data borne by the recording light as an electrostatic latent image; a readout light photoconductive layer formed from an amorphous substance which exhibits photoconductivity when irradiated with readout
5 light; and a second conductive layer having stripe electrodes formed by a plurality of linear electrodes, stacked in the order listed, which generates electric current corresponding to the electrostatic latent image when scanned with the readout light, with the readout light;

10 a readout light scanning means for scanning the solid state detector with the readout light;

a current detecting means for detecting the electric current output from each of the linear electrodes by the scanning with the readout light;

15 an image signal obtaining means for obtaining an image signal by sampling the electric current, detected by the current detecting means, at a predetermined sampling rate; and

a readout speed changing means for changing the readout speed of the electrostatic latent image by changing the scanning
20 speed of the readout light scanning means and the sampling rate in proportion with each other.

11. An image readout apparatus as defined in claim 10, further comprising:

a frequency band changing means for changing a frequency
25 band of the current detecting means.